



PCT10

## RAW SEQUENCE LISTING

DATE: 05/21/2002

PATENT APPLICATION: US/10/019,586

TIME: 15:51:42

Input Set : A:\P1746R1 PCT.txt

Output Set: N:\CRF3\05212002\J019586.raw

**ENTERED**

3 <110> APPLICANT: Genentech, Inc. et al.  
 5 <120> TITLE OF INVENTION: EXPRESSION VECTORS AND METHODS  
 7 <130> FILE REFERENCE: P1746R1 PCT  
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/019,586  
 C--> 10 <141> CURRENT FILING DATE: 2002-03-15  
 12 <150> PRIOR APPLICATION NUMBER: US 60/143,360  
 13 <151> PRIOR FILING DATE: 1999-07-12  
 15 <160> NUMBER OF SEQ ID NOS: 14  
 17 <210> SEQ ID NO: 1  
 18 <211> LENGTH: 218  
 19 <212> TYPE: PRT  
 20 <213> ORGANISM: Artificial sequence  
 22 <220> FEATURE:  
 23 <223> OTHER INFORMATION: mouse-human chimera  
 25 <400> SEQUENCE: 1  
 26 Asp Ile Gln Leu Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val  
 27 1 5 10 15  
 29 Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Lys Pro Val Asp  
 30 20 25 30  
 32 Gly Glu Gly Asp Ser Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly  
 33 35 40 45  
 35 Lys Ala Pro Lys Leu Leu Ile Tyr Ala Ala Ser Tyr Leu Glu Ser  
 36 50 55 60  
 38 Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe  
 39 65 70 75  
 41 Thr Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr  
 42 80 85 90  
 44 Tyr Cys Gln Gln Ser His Glu Asp Pro Tyr Thr Phe Gly Gln Gly  
 45 95 100 105  
 47 Thr Lys Val Glu Ile Lys Arg Thr Val Ala Ala Pro Ser Val Phe  
 48 110 115 120  
 50 Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly Thr Ala Ser  
 51 125 130 135  
 53 Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala Lys Val  
 54 140 145 150  
 56 Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln Glu  
 57 155 160 165  
 59 Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser  
 60 170 175 180  
 62 Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys Val  
 63 185 190 195  
 65 Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr  
 66 200 205 210

## RAW SEQUENCE LISTING

DATE: 05/21/2002

PATENT APPLICATION: US/10/019,586

TIME: 15:51:42

Input Set : A:\P1746R1 PCT.txt

Output Set: N:\CRF3\05212002\J019586.raw

```

68 Lys Ser Phe Asn Arg Gly Glu Cys
69          215
71 <210> SEQ ID NO: 2
72 <211> LENGTH: 451
73 <212> TYPE: PRT
74 <213> ORGANISM: Artificial sequence
76 <220> FEATURE:
77 <223> OTHER INFORMATION: mouse-human chimera
79 <400> SEQUENCE: 2
80 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly
81   1          5          10          15
83 Gly Ser Leu Arg Leu Ser Cys Ala Val Ser Gly Tyr Ser Ile Thr
84          20          25          30
86 Ser Gly Tyr Ser Trp Asn Trp Ile Arg Gln Ala Pro Gly Lys Gly
87          35          40          45
89 Leu Glu Trp Val Ala Ser Ile Thr Tyr Asp Gly Ser Thr Asn Tyr
90          50          55          60
92 Asn Pro Ser Val Lys Gly Arg Ile Thr Ile Ser Arg Asp Asp Ser
93          65          70          75
95 Lys Asn Thr Phe Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp
96          80          85          90
98 Thr Ala Val Tyr Tyr Cys Ala Arg Gly Ser His Tyr Phe Gly His
99          95          100          105
101 Trp His Phe Ala Val Trp Gly Gln Gly Thr Leu Val Thr Val Ser
102          110          115          120
104 Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser
105          125          130          135
107 Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val
108          140          145          150
110 Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly
111          155          160          165
113 Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser
114          170          175          180
116 Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser
117          185          190          195
119 Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro
120          200          205          210
122 Ser Asn Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser Cys Asp
123          215          220          225
125 Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly
126          230          235          240
128 Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu
129          245          250          255
131 Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val
132          260          265          270
134 Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly
135          275          280          285
137 Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr
138          290          295          300

```

## RAW SEQUENCE LISTING

DATE: 05/21/2002

PATENT APPLICATION: US/10/019,586

TIME: 15:51:42

Input Set : A:\P1746R1 PCT.txt

Output Set: N:\CRF3\05212002\J019586.raw

```

140 Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln
141                               305                               310                               315
143 Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys
144                               320                               325                               330
146 Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
147                               335                               340                               345
149 Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu
150                               350                               355                               360
152 Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly
153                               365                               370                               375
155 Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln
156                               380                               385                               390
158 Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp
159                               395                               400                               405
161 Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg
162                               410                               415                               420
164 Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala
165                               425                               430                               435
167 Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly
168                               440                               445                               450
170 Lys
173 <210> SEQ ID NO: 3
174 <211> LENGTH: 22
175 <212> TYPE: DNA
176 <213> ORGANISM: Artificial sequence
178 <220> FEATURE:
179 <223> OTHER INFORMATION: PCR primer and probe
181 <400> SEQUENCE: 3
182 gtggagaggg tgaaggtgat gc 22
184 <210> SEQ ID NO: 4
185 <211> LENGTH: 22
186 <212> TYPE: DNA
187 <213> ORGANISM: Artificial sequence
189 <220> FEATURE:
190 <223> OTHER INFORMATION: PCR primer and probe
192 <400> SEQUENCE: 4
193 cgaaagggca gattgtgtgg ac 22
195 <210> SEQ ID NO: 5
196 <211> LENGTH: 27
197 <212> TYPE: DNA
198 <213> ORGANISM: Artificial sequence
200 <220> FEATURE:
201 <223> OTHER INFORMATION: PCR primer and probe
203 <400> SEQUENCE: 5
204 taaccgctac cgggacagga aaatggt 27
206 <210> SEQ ID NO: 6
207 <211> LENGTH: 19
208 <212> TYPE: DNA
209 <213> ORGANISM: Artificial sequence

```

## RAW SEQUENCE LISTING

DATE: 05/21/2002

PATENT APPLICATION: US/10/019,586

TIME: 15:51:42

Input Set : A:\P1746R1 PCT.txt

Output Set: N:\CRF3\05212002\J019586.raw

211 <220> FEATURE:  
212 <223> OTHER INFORMATION: PCR primer and probe  
214 <400> SEQUENCE: 6  
215 agagtcaccg aggggagta 19  
217 <210> SEQ ID NO: 7  
218 <211> LENGTH: 20  
219 <212> TYPE: DNA  
220 <213> ORGANISM: Artificial sequence  
222 <220> FEATURE:  
223 <223> OTHER INFORMATION: PCR primer and probe  
225 <400> SEQUENCE: 7  
226 cgtagggtttg ggatgttttg 20  
228 <210> SEQ ID NO: 8  
229 <211> LENGTH: 25  
230 <212> TYPE: DNA  
231 <213> ORGANISM: Artificial sequence  
233 <220> FEATURE:  
234 <223> OTHER INFORMATION: PCR primer and probe  
236 <400> SEQUENCE: 8  
237 acgggcaact ctctgtcaa acaat 25  
239 <210> SEQ ID NO: 9  
240 <211> LENGTH: 18  
241 <212> TYPE: DNA  
242 <213> ORGANISM: Artificial sequence  
244 <220> FEATURE:  
245 <223> OTHER INFORMATION: PCR primer and probe  
247 <400> SEQUENCE: 9  
248 agccactggg acggaaca 18  
250 <210> SEQ ID NO: 10  
251 <211> LENGTH: 20  
252 <212> TYPE: DNA  
253 <213> ORGANISM: Artificial sequence  
255 <220> FEATURE:  
256 <223> OTHER INFORMATION: PCR primer and probe  
258 <400> SEQUENCE: 10  
259 accgggagaa gaacctgaca 20  
261 <210> SEQ ID NO: 11  
262 <211> LENGTH: 25  
263 <212> TYPE: DNA  
264 <213> ORGANISM: Artificial sequence  
266 <220> FEATURE:  
267 <223> OTHER INFORMATION: PCR primer and probe  
269 <400> SEQUENCE: 11  
270 ctgaccaggt gtctgcggtg gacag 25  
272 <210> SEQ ID NO: 12  
273 <211> LENGTH: 20  
274 <212> TYPE: DNA  
275 <213> ORGANISM: Artificial sequence  
277 <220> FEATURE:

## RAW SEQUENCE LISTING

DATE: 05/21/2002

PATENT APPLICATION: US/10/019,586

TIME: 15:51:42

Input Set : A:\P1746R1 PCT.txt

Output Set: N:\CRF3\05212002\J019586.raw

278 <223> OTHER INFORMATION: PCR primer and probe  
280 <400> SEQUENCE: 12  
281 tcgccttgct gctctacctc 20  
283 <210> SEQ ID NO: 13  
284 <211> LENGTH: 19  
285 <212> TYPE: DNA  
286 <213> ORGANISM: Artificial sequence  
288 <220> FEATURE:  
289 <223> OTHER INFORMATION: PCR primer and probe  
291 <400> SEQUENCE: 13  
292 ggcacacagg atggcttga 19  
294 <210> SEQ ID NO: 14  
295 <211> LENGTH: 25  
296 <212> TYPE: DNA  
297 <213> ORGANISM: Artificial sequence  
299 <220> FEATURE:  
300 <223> OTHER INFORMATION: PCR primer and probe  
302 <400> SEQUENCE: 14  
303 ccaagtggtc ccaggctgca cccat 25

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/019,586

DATE: 05/21/2002

TIME: 15:51:43

Input Set : A:\P1746R1 PCT.txt

Output Set: N:\CRF3\05212002\J019586.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application Number

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date

## STATISTICS SUMMARY

DATE: 05/21/2002

PATENT APPLICATION: US/10/019,586

TIME: 15:51:43

Input Set : A:\P1746R1 PCT.txt

Output Set: N:\CRF3\05212002\J019586.raw

Application Serial Number: US/10/019,586

Alpha or Numeric: Numeric

Application Class:

Application File Date: 03-15-2002

Art Unit: PCT10

Software Application:

Total Number of Sequences: 14

Total Nucleotides: 262

Total Amino Acids: 669

Number of Errors: 0

Number of Warnings: 0

Number of Corrections: 2

## MESSAGE SUMMARY

270 C: 1 (Current Application Number differs)

271 C: 1 (Current Filing Date differs)